CELERY CULTIVAR TRIALS - 1978

MUCK CROPS BRANCH

CELERYVILLE, OHIO

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OHIO AGRICULTURAL RESEARCH AND DEVELOPMENT CENTER

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Muck Crops Branch, Celeryville, Ohio

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Ten cultivars or promising breeding lines of celery were compared in replicated trials (four) at the Muck Crops Station in the 1978 Season. Cultural information and tabular data summary are included in the following.

Cultural Information:

Seed was sown in flats in the greenhouse, April 2, 1978, seedlings were transplanted to greenhouse benches April 19, 1978; and the celery was transplanted (mechanically) into the field on May 19, 1978.

Eight hundred pounds of an 6-24-12 fertilizer were applied and disced in prior to planting. Side-dressing of ammonium nitrate (100 lb/A) was made twice during the second and fifth weeks after planting.

Randomized replicated plots consisted of paired rows spaced 34 inches, with 40 inches between the paired rows for equipment clearance. Plants were spaced 6.5 inches in the row, with 42 plants per 23-foot plot and replicated four times for each cultivar.

Dyrene was applied at 7 to 10 day intervals for disease control. Malathion and Parathion were alternately used early in season and Dipel late in season for control of insects.

Rainfall was lower than normal throughout the 1978 season. Water was applied as needed with an overhead irrigation system. Celery growth was not as satisfactory as in the '76 and '77 seasons and was further affected by a late infestation of cabbage worms.

Harvesting and recording of data were accomplished during the August 14-15 period, 1978. Total yield, stalk size, trim loss, length and number of petioles are included in Table 1.

Seed Sources:

The following include abbreviations used in Table 1, as well as the seed companies involved. We would like to acknowledge that each seed company donated the seed for these celery cultivar studies.

K1	Keystone Seed Co.
FC2	Food Machinery Corp.
FM3	Ferry Morse Seed Co.
H4	Harris Seed Co.

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TABLE 1. CELERY CULTIVARS - 1978

Rank	Variety & Source		Average Yield per Plot - Marketable: Percent Marketable %	Trimmed Weight lb	Un-trimmed Weight lb	Trim Loss %	Ave. Stalk lb	Petiole Count 4" Above Butt number	Petiole Length Butt to 1st Node inches	Petiole Overall Length inches
1.	Transgreen	FM3	71	65.0	115.0	43	1.8	8.6	10.6	27.6
2.	Florida 683	FM3	65	62.0	101.0	39	1.9	9.3	9.8	27.2
3.	Surepak	FM3	68	57.7	103.5	44	1.7	9.7	11.3	29.9
4.	Calmario	FC2	82	56.1	88.4	37	1.8	9.1	9.4	27.3
5.	Tall Green Light	H4	85	55.0	94.5	42	1.8	9.9	9.2	26.4
6.	52-70 R. Imp.	FM3	69	53.7	87.9	39	1.6	8.8	10.4	27.6
7.	Florida 683 K strain	K1	82	49.2	82.3	40	1.8	9.6	9.0	27.0
8.	Clean Cut	H4	79	48.7	80.8	40	1.7	9.1	10.3	28.0
9.	Florida 2-15	K1	74	48.0	85.2	44	1.6	8.3	9.6	26.7
10.	Tall Utah 52-70 H	K1	73	46.0	74.9	39	1.6	8.4	9.0	27.1

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